

FIG. 1

STORAGE PORTION

SYSTEM CONTROL PORTION

**USER I/F PROCESSING PORTION** 

BEAM CONTROL PROCESSING PORTION

MEASURED DATA ANALYSIS PROCESSING PORTION

SOUND SOURCE POSITION CORRECTION PROCESSING PORTION

OPERATING PORTION

DISPLAY PORTION

PHANTOM FORMATION PORTION

**BEAM FORMATION PORTION** 

10 SPEAKER ARRAY

31 DELAY PORTION

A: SOUND SOURCE POSITION CORRECTION

B: DECODER OUTPUT

ANALOG INPUT

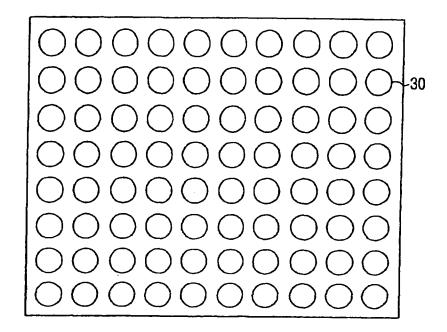
D: ANGLE SETTING OF EACH CHANNEL

FLOW OF MEASURED DATA

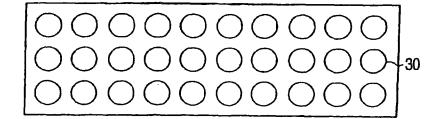
F: FLOW OF CONTROL INFORMATION

Fig. 2

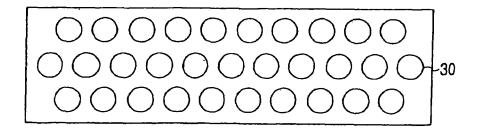
(A)

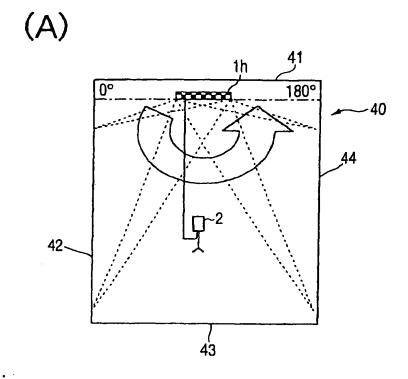


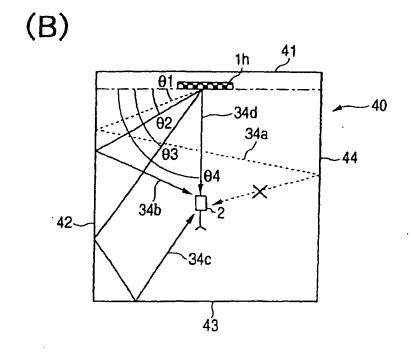
(B)



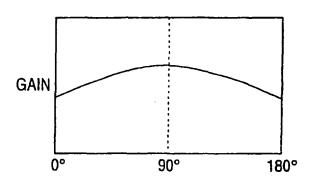
(C)

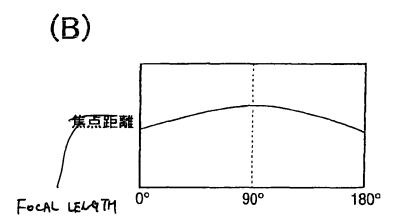


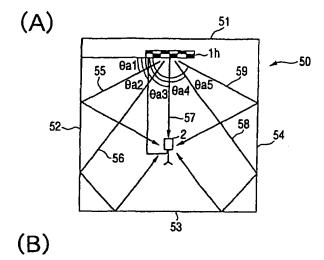


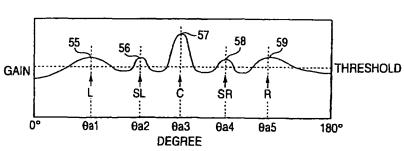


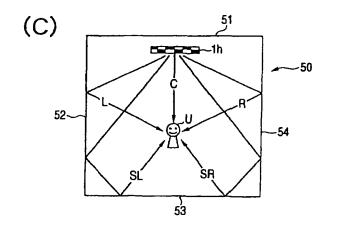
(A)

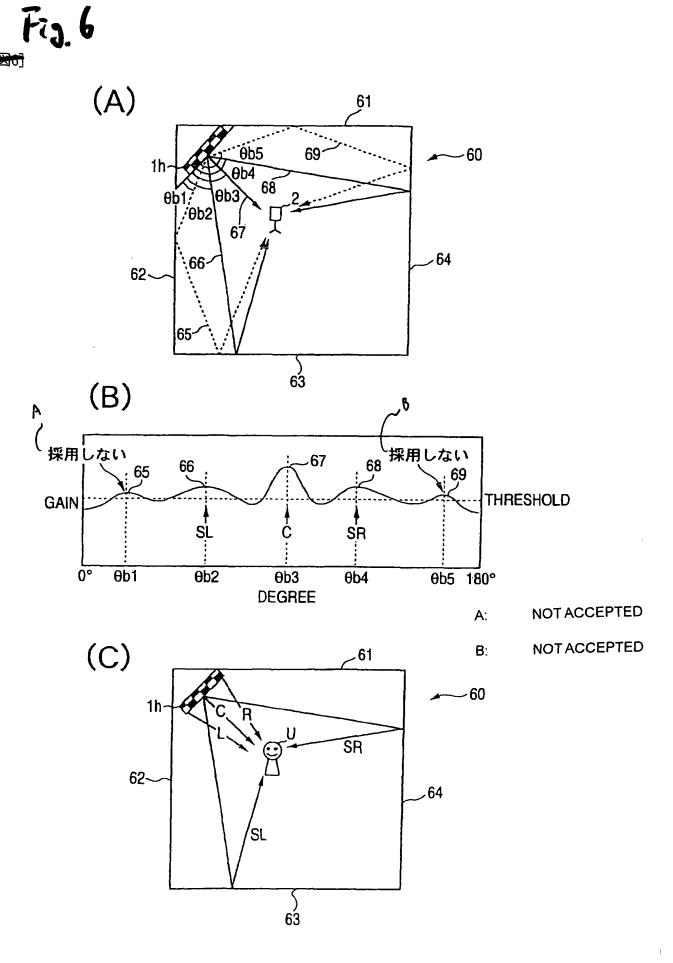


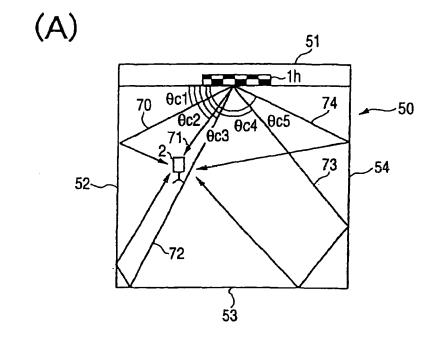




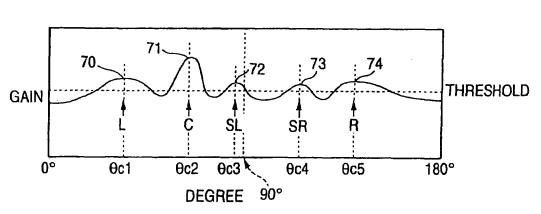


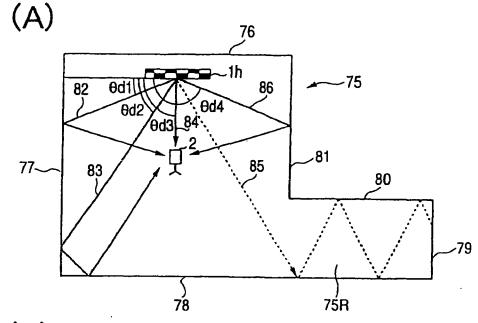


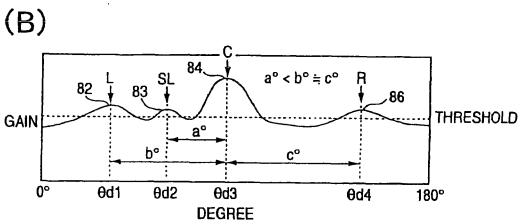


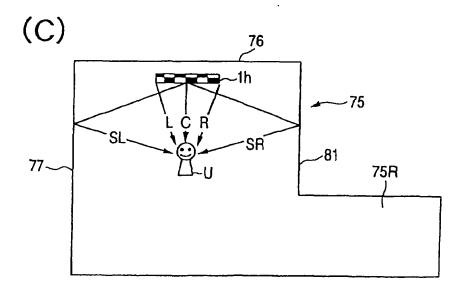


(B)



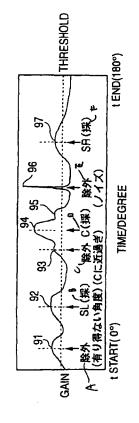




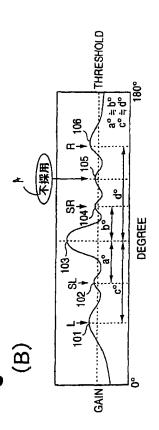




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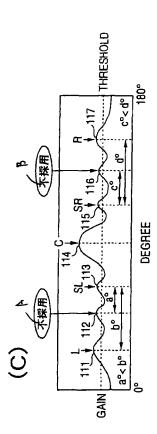


FIG. 9(A)

A: EXCLUDED (IMPOSSIBLE ANGLE)

SL (ACCEPTED)

EXCLUDED (TOO CLOSE TO C)

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C (ACCEPTED)

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EXCLUDED (NOISE)

F: SR (ACCEPTED)

FIG. 9(B)

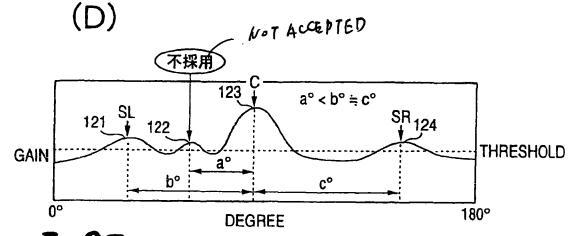
A: NOT ACCEPTED

FIG. 9(C)

A: NOT ACCEPTED

B: NOT ACCEPTED

Fg. 9P
(D)



Fg.9E

(E)

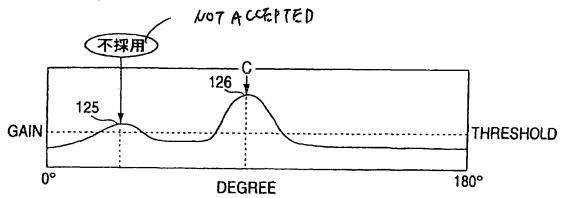
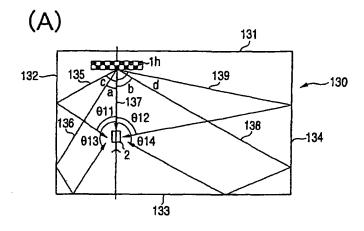
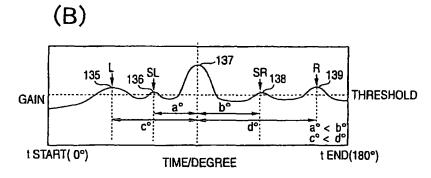
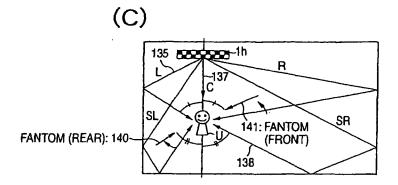


Fig. 19
(A)









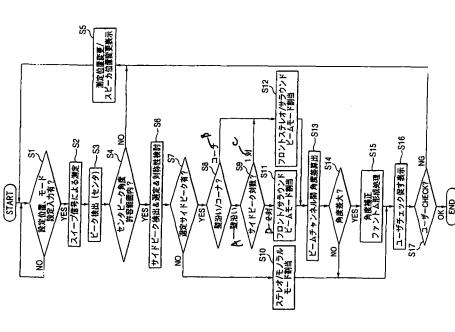


FIG. 11

- S1 ARE THERE INSTALLATION POSITION INPUT AND MODE SETTING INPUT?
- S2 MEASURE WITH SWEEP SIGNAL
- DETECT PEAK (CENTER)

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- IS CENTER PEAK ANGLE WITHIN ALLOWABLE RANGE?
- S5 DISPLAY TO CHANGE MEASURING POSITION OR CHANGE SPEAKER

## POSITION

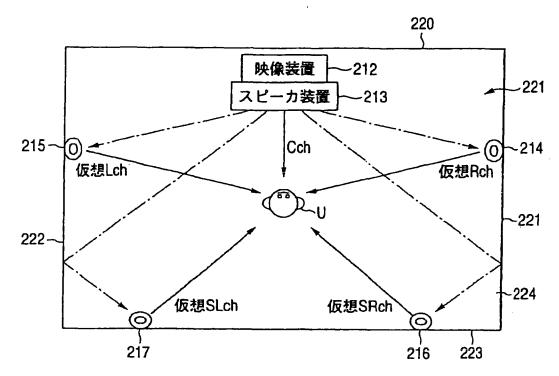
- S6 DETECT AND SELECT SIDE PEAKS AND CHECK SYMMETRY
- S7 ARE THERE SELECTED SIDE PEAKS?
- S8 ALONG WALL OR IN CORNER?
- A: IN CORNER
- B: ALONG WALL
- HOW MANY PAIRS OF SIDE PEAKS?

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ONE PAIR

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- TWO PAIRS
- S10 ASSIGN STEREO/MONAURAL MODE
- S11 ASSIGN FRONT/SURROUND-SOUND BEAM MODE
- S12 ASSIGN FRONT STEREO/SURROUND-SOUND BEAM MODE
- S13 CALCULATE DIFFERENCE IN ANGLE BETWEEN BEAM CHANNELS
- S14 IS DIFFERENCE IN ANGLE LARGE?
- S15 PERFORM ANGLE CORRECTION AND PHANTOM FORMATION PROCESSING
- S16 DISPLAY TO PROMPT USER TO CHECK
- S17 IS USER'S CHECK SUCCESSFUL?



- 212 VIDEO APPARATUS
- 213 SPEAKER APPARATUS
- 214 VIRTUAL Rch
- 215 VIRTUAL Lch
- 216 VIRTUAL SRch
- 217 VIRTUAL SLch